



U 014863-8
10/690,246
Replacement Sheet

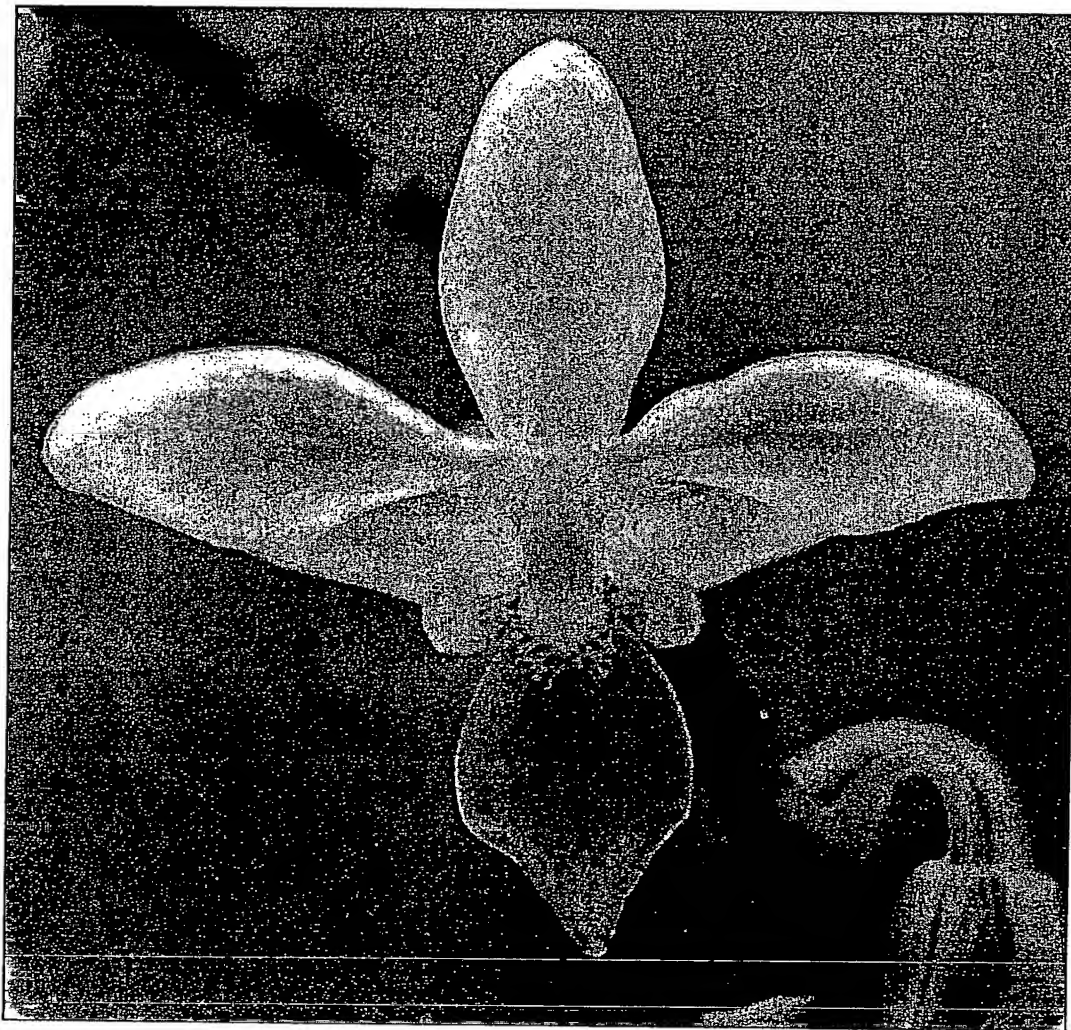


FIG. 1a

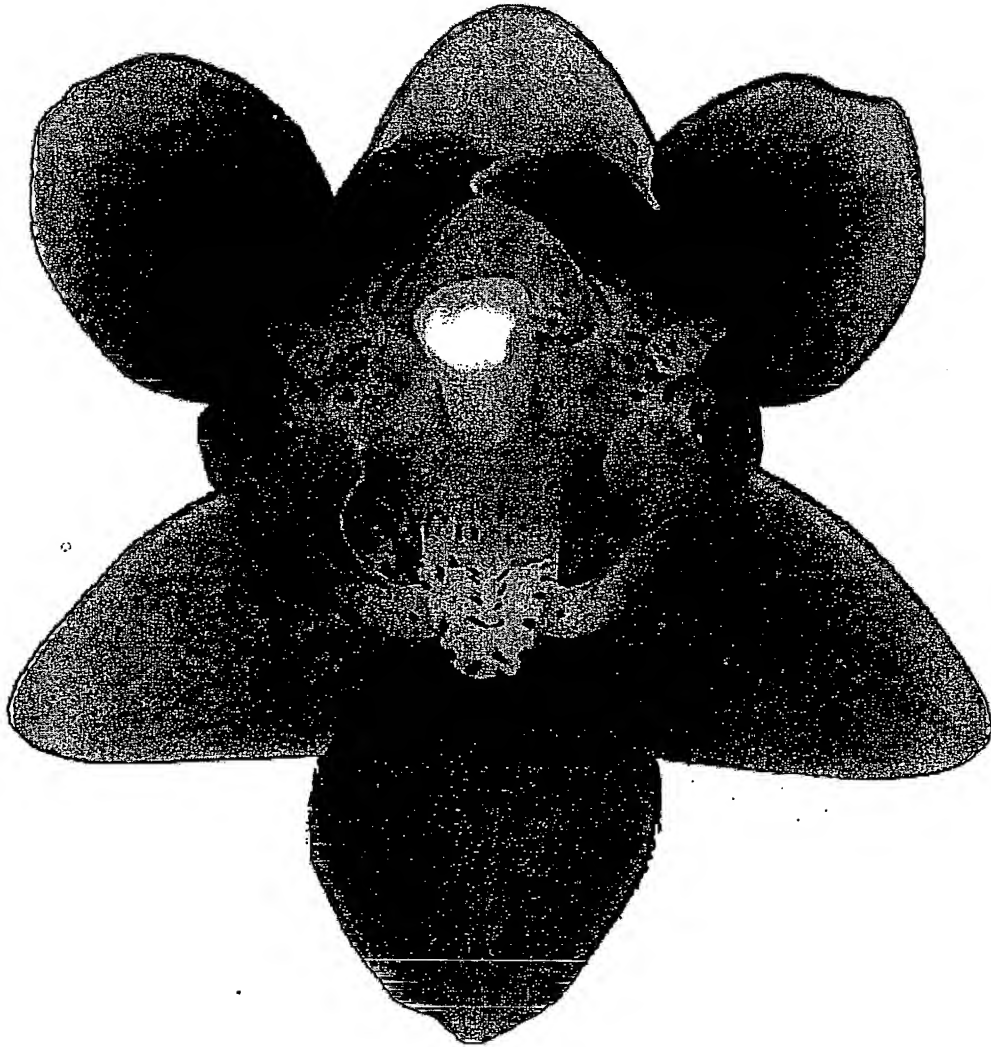


FIG. 1b

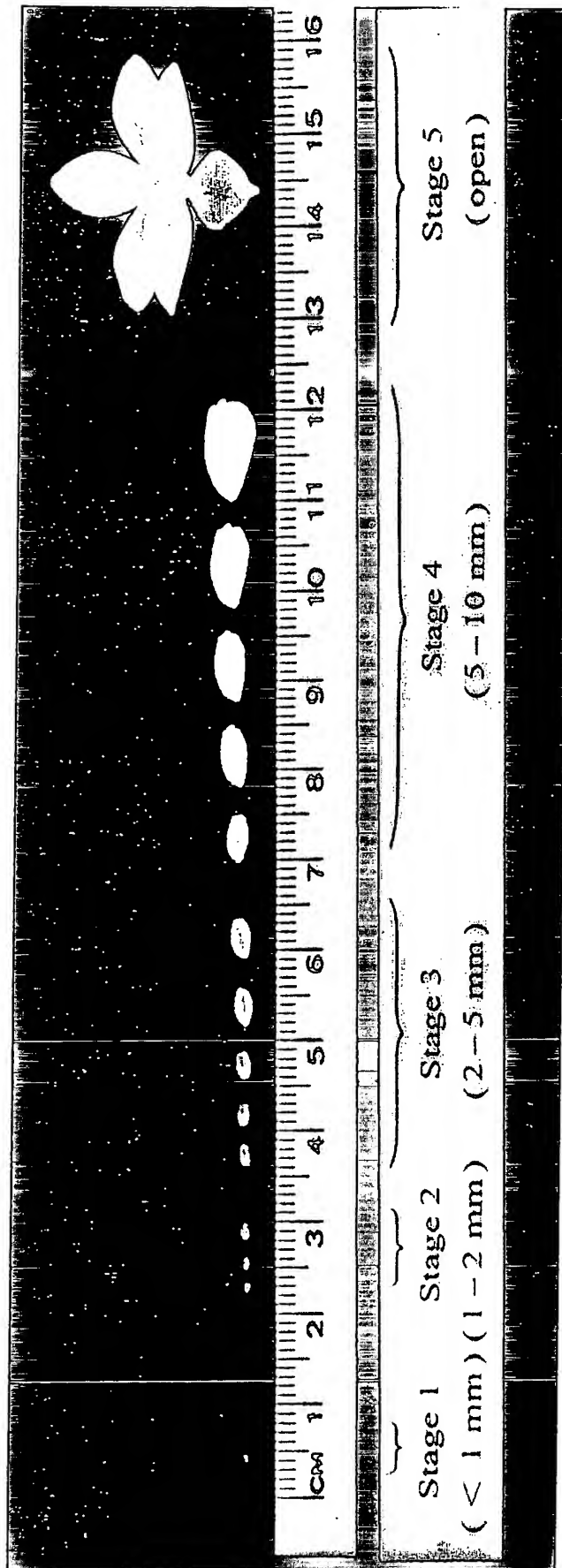


FIG. 1c

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MADS-DOMAIN									
PI	K	R	G	K	I	E	I	K	P
OSMADS4	K	R	G	K	I	E	I	K	P
DEF	K	R	G	K	I	E	I	K	P
AP3	K	R	G	K	I	E	I	K	P
OSMADS16	K	R	G	K	I	E	I	K	P
SILKY1	K	R	G	K	I	E	I	K	P
PeMADS4	K	R	G	K	I	E	I	K	P
PeMADS3	K	R	G	K	I	E	I	K	P
LMADS1	K	R	G	K	I	E	I	K	P
PeMADS2	K	R	G	K	I	E	I	K	P
PeMADS5	K	R	G	K	I	E	I	K	P
I-DOMAIN									
PI	S	M	L	G	A	M	L	D	O
OSMADS4	S	M	L	G	A	M	L	D	O
DEF	S	M	L	G	A	M	L	D	O
AP3	S	M	L	G	A	M	L	D	O
OSMADS16	S	M	L	G	A	M	L	D	O
SILKY1	S	M	L	G	A	M	L	D	O
PeMADS4	S	M	L	G	A	M	L	D	O
PeMADS3	S	M	L	G	A	M	L	D	O
LMADS1	S	M	L	G	A	M	L	D	O
PeMADS2	S	M	L	G	A	M	L	D	O
PeMADS5	S	M	L	G	A	M	L	D	O
K-DOMAIN									
PI	L	M	A	V	E	H	A	I	H
OSMADS4	L	M	A	V	E	H	A	I	H
DEF	L	M	A	V	E	H	A	I	H
AP3	L	M	A	V	E	H	A	I	H
OSMADS16	L	M	A	V	E	H	A	I	H
SILKY1	L	M	A	V	E	H	A	I	H
PeMADS4	L	M	A	V	E	H	A	I	H
PeMADS3	L	M	A	V	E	H	A	I	H
LMADS1	L	M	A	V	E	H	A	I	H
PeMADS2	L	M	A	V	E	H	A	I	H
PeMADS5	L	M	A	V	E	H	A	I	H
C-DOMAIN									
PI	S	M	L	G	A	M	L	D	O
OSMADS4	S	M	L	G	A	M	L	D	O
DEF	S	M	L	G	A	M	L	D	O
AP3	S	M	L	G	A	M	L	D	O
OSMADS16	S	M	L	G	A	M	L	D	O
SILKY1	S	M	L	G	A	M	L	D	O
PeMADS4	S	M	L	G	A	M	L	D	O
PeMADS3	S	M	L	G	A	M	L	D	O
LMADS1	S	M	L	G	A	M	L	D	O
PeMADS2	S	M	L	G	A	M	L	D	O
PeMADS5	S	M	L	G	A	M	L	D	O

PI: SEQ ID NO: 27
OSMADS4: SEQ ID NO: 28
DEF: SEQ ID NO: 29
AP3: SEQ ID NO: 30
OSMADS16: SEQ ID NO: 31
SILKY1: SEQ ID NO: 32
PeMADS4: SEQ ID NO: 6
PeMADS3: SEQ ID NO: 4
LMADS1: SEQ ID NO: 33
PeMADS2: SEQ ID NO: 2
PeMADS5: SEQ ID NO: 8

FIG. 2

	PI Motif-Derived	PaleoAP3 Motif
DR6 (SEQ ID NO: 34)	--VHNIYA FR LQPL-HPNLQ	NE-GG-FGSR -DLRLS
OSMADS16 (SEQ ID NO: 35)	GAAADMFAFR VVPS-QPNLH	GMAYGGN--H -DLRLG
TAMADS51 (SEQ ID NO: 36)	GLAADMYA FR VVPS-QPNLH	GMAYGGS--H -DLRLG
SILKY1 (SEQ ID NO: 37)	GAPPDMYA FR VVPS-QPNLH	GMAYG-F--H -DLRLG
SmAP3 (SEQ ID NO: 38)	RPADVGYAFH HSAG-QSNVH	---DVGYG GFH -ELRLA
PeMADS3 (SEQ ID NO: 39)	---SYLYSFR TQPS-QPNLQ	---GVGYVPH -DLRLA
PeMADS2 (SEQ ID NO: 40)	---PQMFSFR VVHPNQP NLI	---GLGYESH -DLSLA
PeMADS4 (SEQ ID NO: 41)	---SHHYA FR VQPN-QQNLO	---GTGYSSH MDLRLA
LMADS1 (SEQ ID NO: 42)	NGASHIYEFR VQPS-QPNLH	---GMGYGSH -DLRLA
PnAP3-2 (SEQ ID NO: 43)	---PNI FAFR LQPS-QPNLH	N--GGGYNCH -DLRLA
MfAP3 (SEQ ID NO: 44)	---AHI-----LH	D---TGFGIH -DLRLA
DeAP3 (SEQ ID NO: 45)	---QNI FAFR LQPS-QPNLH	D--GGGYGSH -DLRLA
PeMADS5 (SEQ ID NO: 46)	YDSSISMANR LHR S-EPNVQ	---KVVRECH -EFGFD
CMB2 (SEQ ID NO: 47)	AAA-NI FALS RHPIT-----	-----
Consensus (SEQ ID NO: 48)	-----F.FR LQPS.QPNLH	-----YG-H -DLRLA

FIG. 3

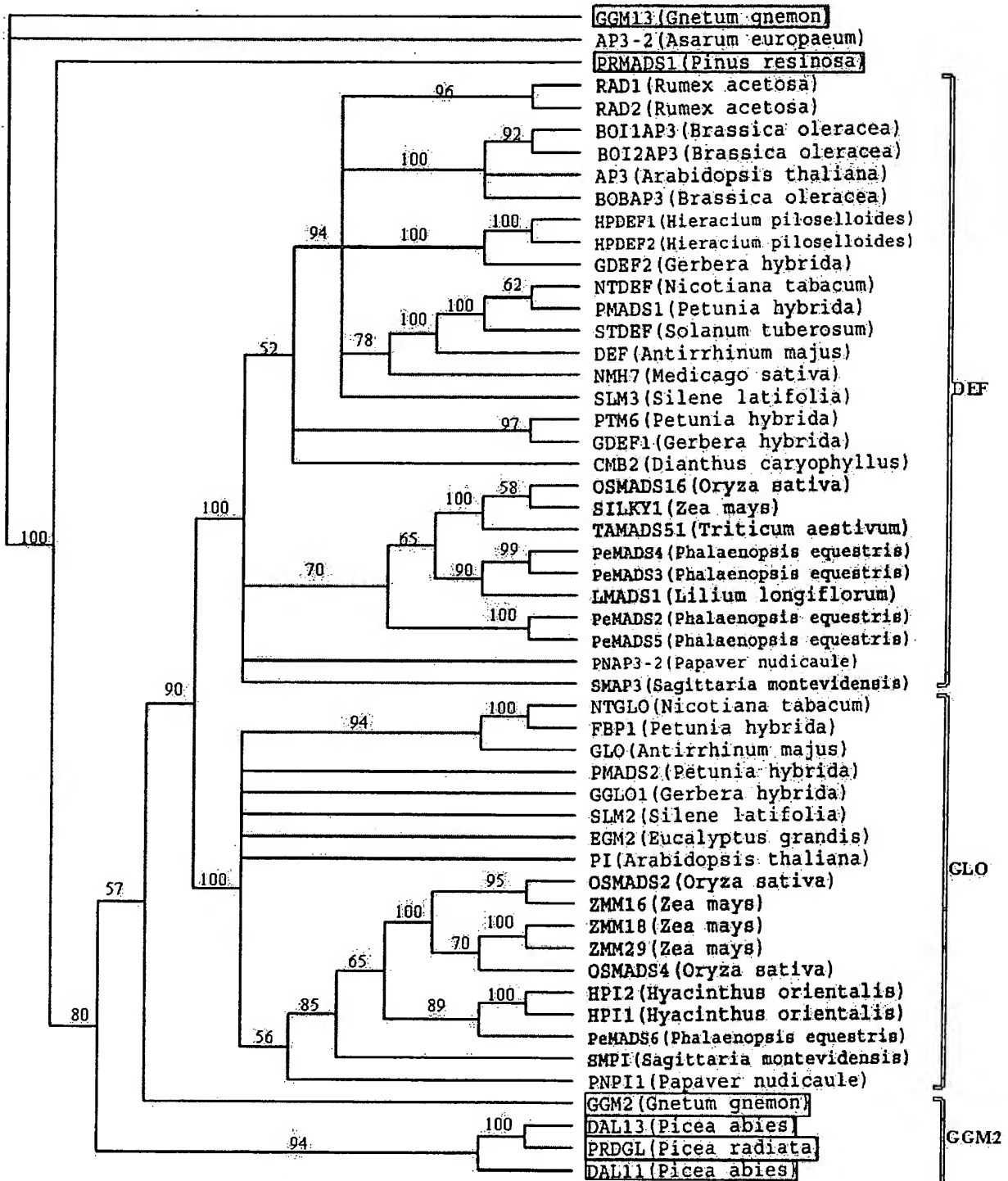


FIG. 4

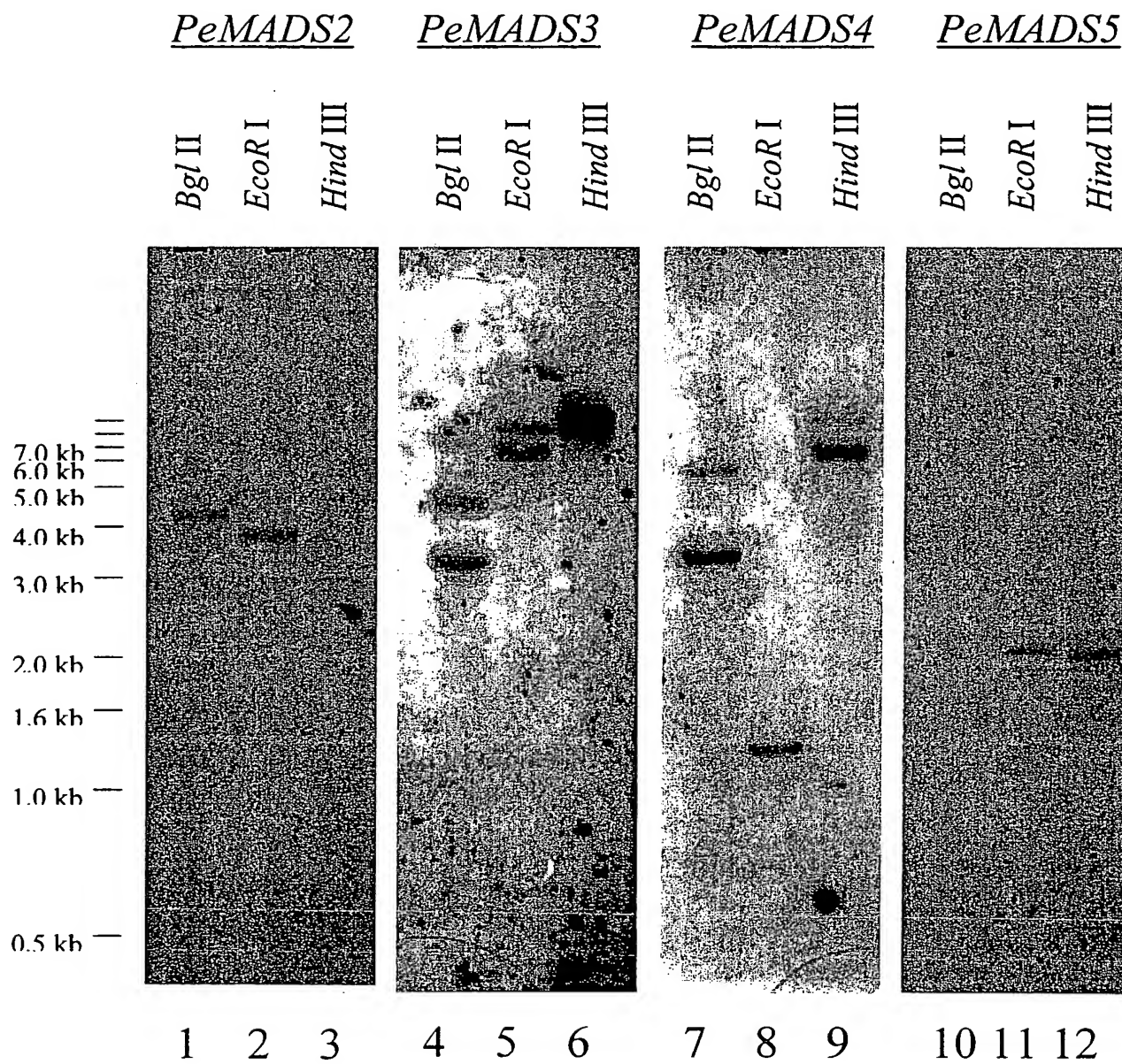


FIG. 5

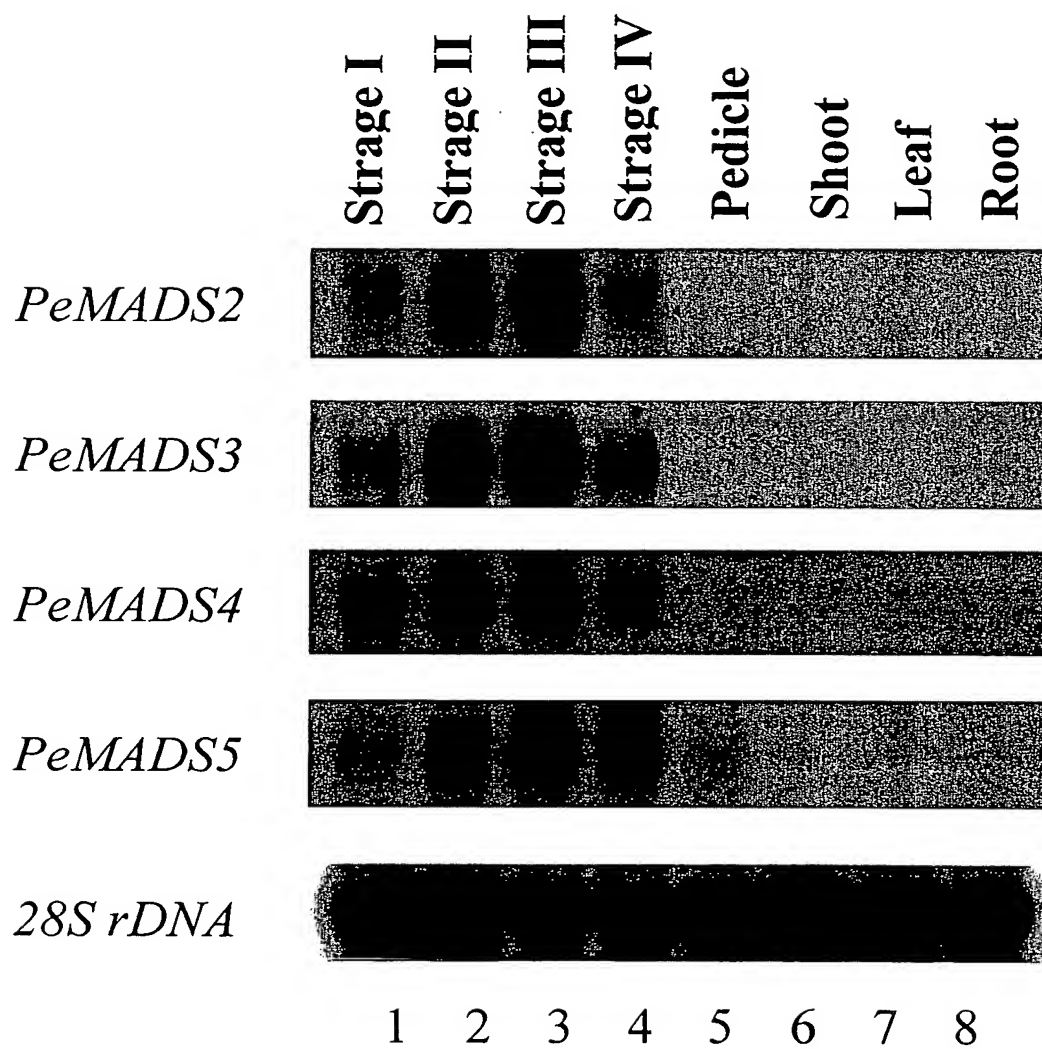


FIG. 6

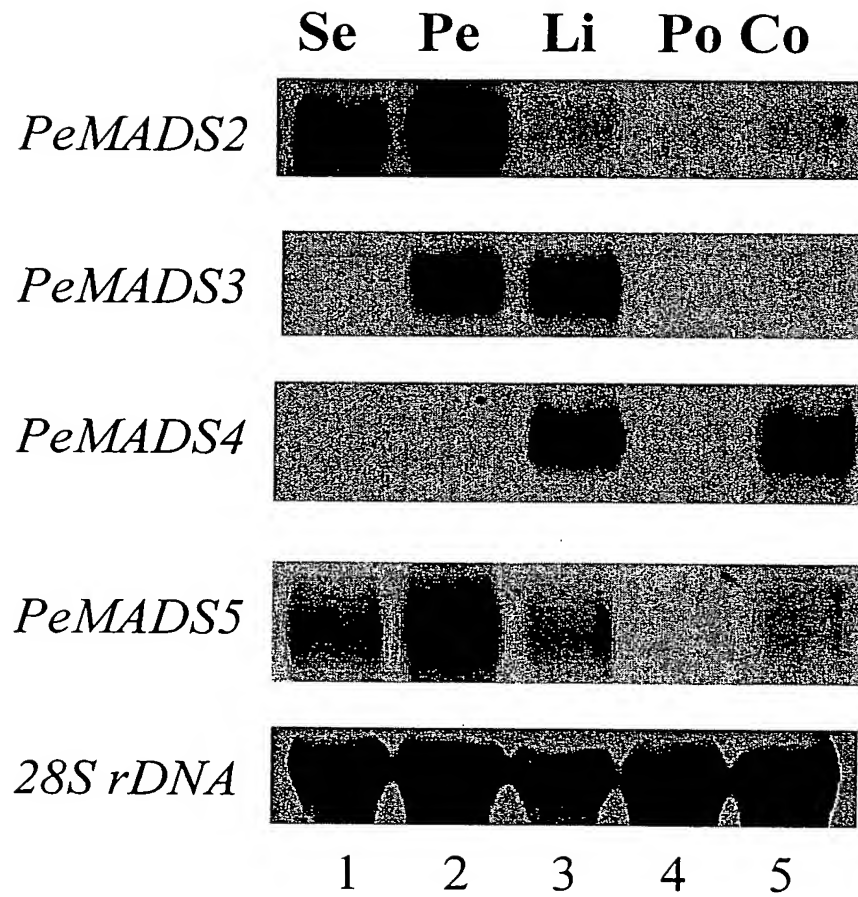


FIG. 7a

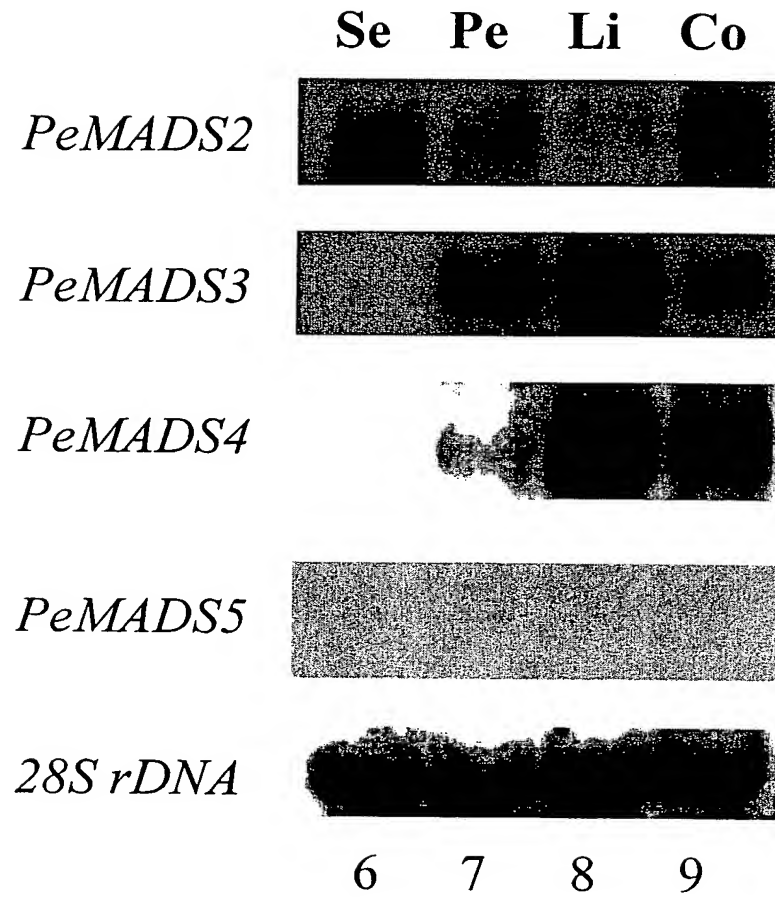


FIG. 7b